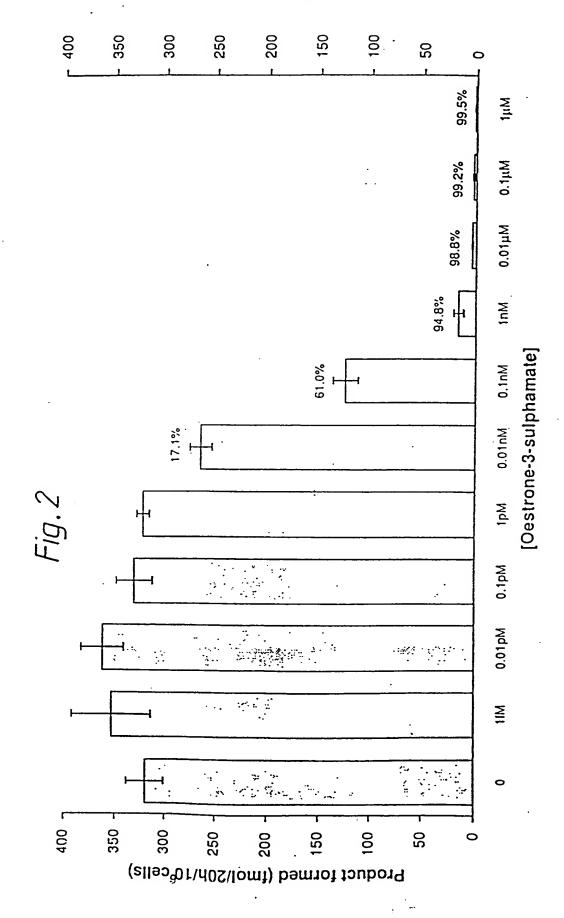
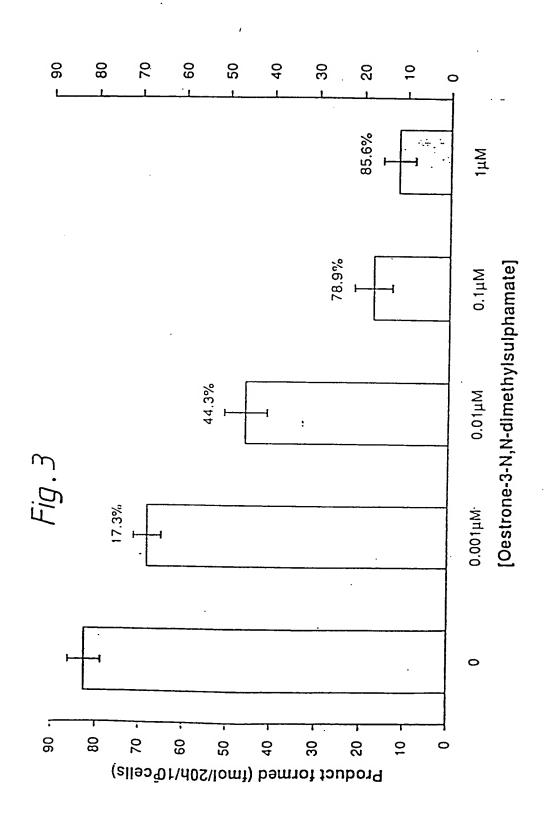


4. 5 ∝ REDUCTASE 2. AROMATASE 3. DEHYDROGENASE KEY ENZYMES IN STEROIDOGENESIS:1. SULPHAIASE

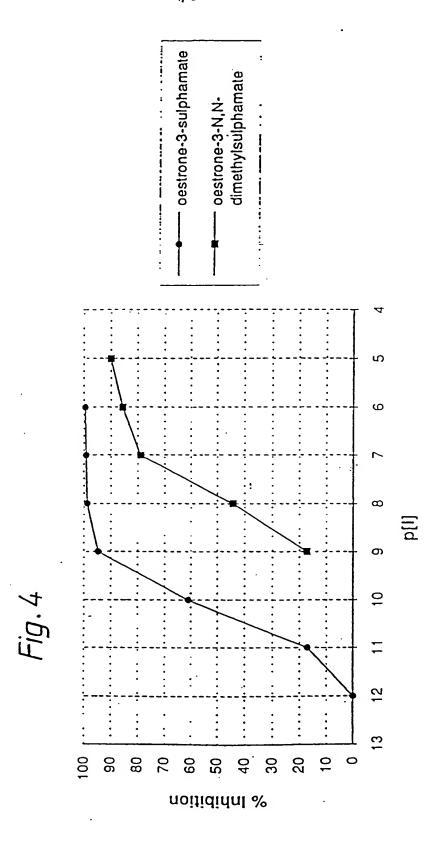
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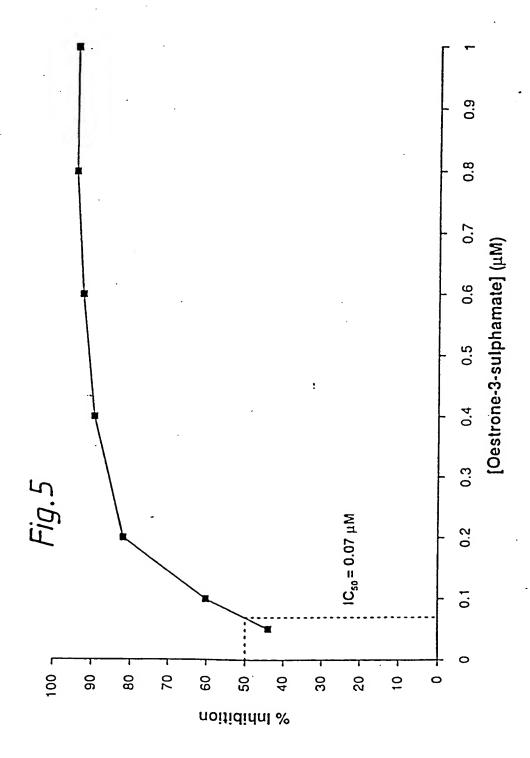


HODSYNUM TONNOON









(1) · OH (2) · OSO₃· (3) · OSO₂NH² (4) · NHSO₂NH² (5) · SSO₂NH²

(11) -OH H H H H (12) -OSO₂NH₂ H CH₃ COSO₂NH₂ H CH₃ CH₃ (16) -OSO₂NH₂ H CF₃ H

FIG. 8

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of a Wallanda Constitution

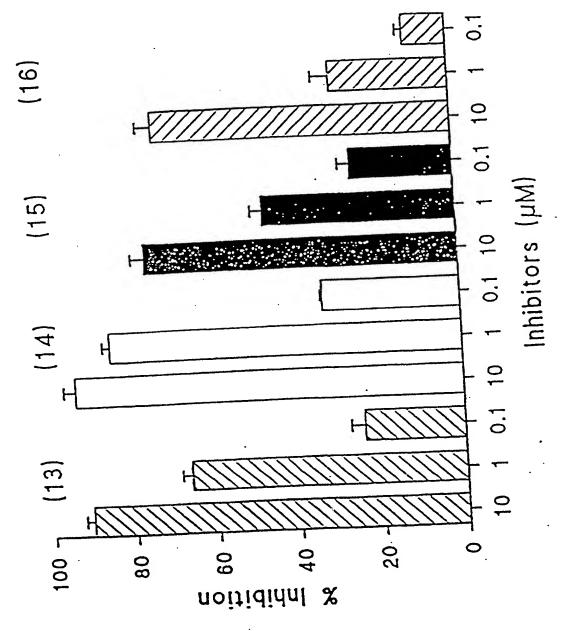
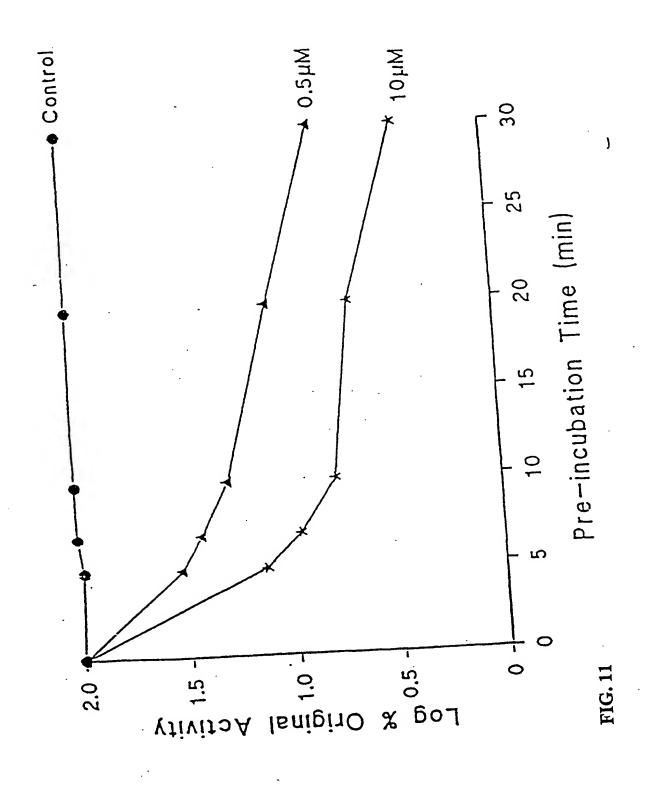


FIG. 10



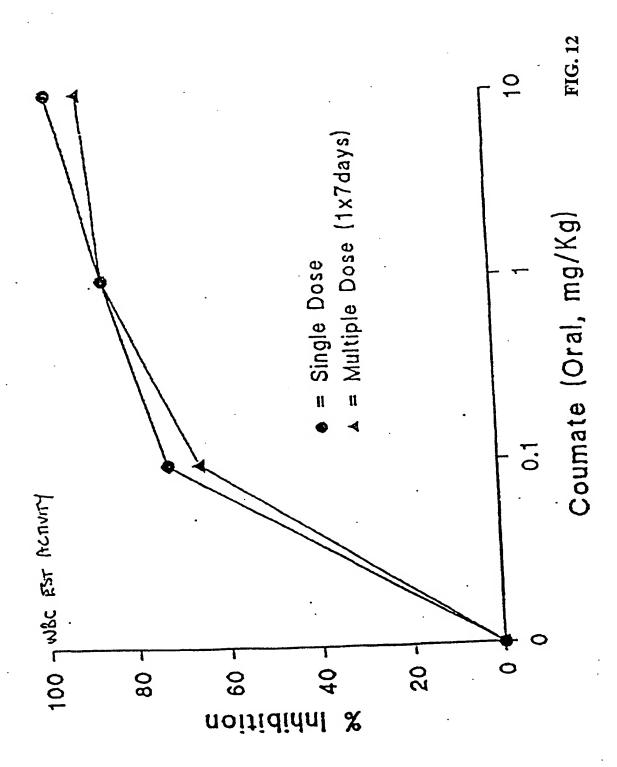


FIG. 13

$$R_{6}$$
 R_{1}
 R_{2}
 R_{1}
 R_{2}
 R_{3}

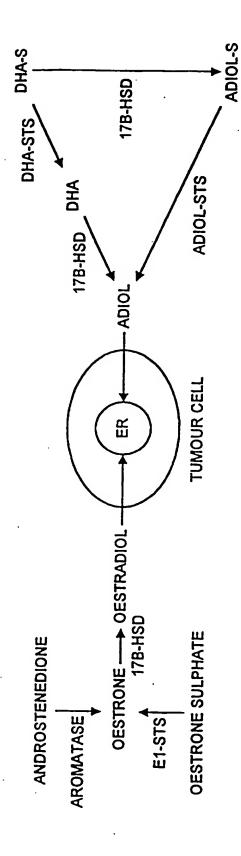
$$R_{5}$$
 R_{6}
 R_{7}
 R_{1}
 R_{1}
 R_{1}
 R_{2}
 R_{1}

$$R_{4}$$
 C
 R_{5}
 R_{6}
 R_{3}
 C
 C

<

FIG. 1

ORIGIN OF OESTROGENIC STEROIDS IN POSTMENOPAUSAL WOMEN



ER=OESTROGEN RECEPTOR, DHA / -S=DEHYDROEPIANDROSTERONE / -SULPHATE, ADIOL=ANDROSTENEDIOL, E1-STS=OESTRONE SULPHATASE, DHA -STS= DHA-SULPHATASE, ADIOL-STS=ADIOL SULPHATASE, 17B-HSD=OESTRADIOL 17B-HYDROXYSTEROID DEHYDROGENASE

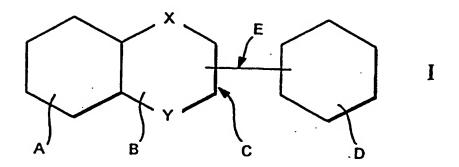


FIG. 16b

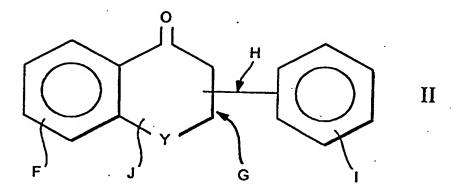
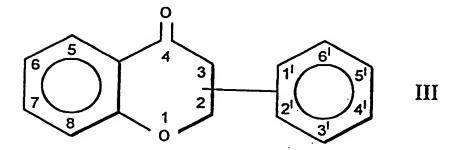


FIG. 16c



$$R_2$$
 R_3
 R_5
 R_{11}
 R_{12}
 R_{12}
 R_{10}
 R_{10}
 R_{10}

لاي

FIG. 18

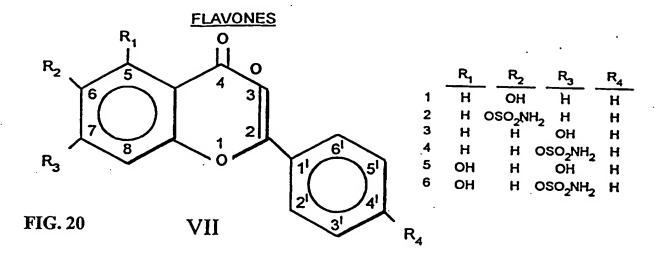
$$R_{11}$$
 R_{2}
 R_{3}
 R_{5}
 R_{10}
 R_{10}
 R_{10}
 R_{10}
 R_{2}
 R_{3}
 R_{4}
 R_{4}
 R_{4}
 R_{4}
 R_{4}
 R_{4}
 R_{5}

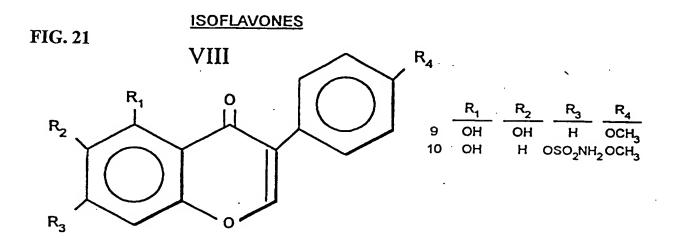
$$\begin{array}{c} R_{2} \\ R_{3} \\ R_{5} \\ \end{array}$$

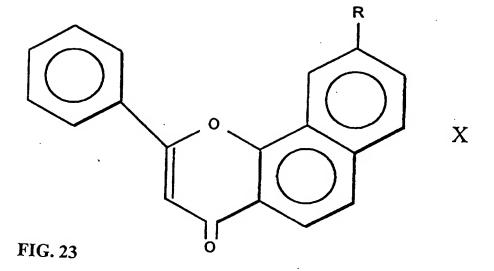
$$\begin{array}{c} R_{6} \\ R_{8} \\ R_{11} \\ R_{12} \\ \end{array}$$

$$\begin{array}{c} VI \\ R_{10} \\ \end{array}$$

$$\begin{array}{c} R_{12} \\ R_{4} \\ \end{array}$$







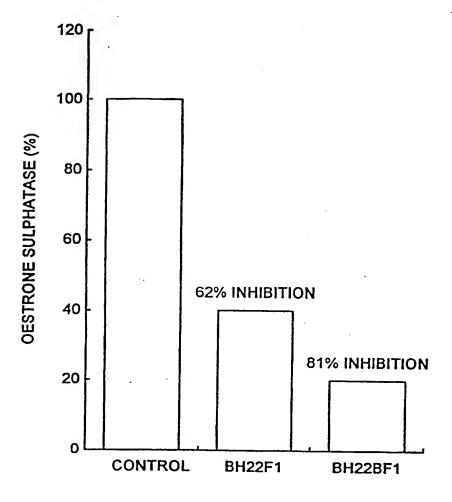


FIG. 24

X - B - A I

FIG. 25

$$R_1$$
 S_2
 R_2
 R_1
 R_2

FIG. 26

$$\begin{array}{c} X_2 = -SO_2NH_2 \\ R_1 & R_2 \\ \hline \\ N-CH_2CH_2CH_3 & H \\ \hline \\ X_2O & C) & n-CH_2CH_2CH_3 & n-CH_2CH_2CH_3 \\ \hline \\ R_2 & C) & n-CH_2CH_2CH_3 & n-CH_2CH_2CH_3 \\ \hline \end{array}$$

FIG. 30

$$X_2 = -SO_2NH_2$$
 R_1
 R_2
 H_3CO_2
 H_3CO_3
 R_4
 R_2
 R_3
 R_4
 R_5
 R_5
 R_7
 R_7
 R_7
 R_8
 R_9
 R_9

FIG. 32

$$X_2 = -SO_2NH_2$$
 R_1
 R_2
 R_2
 R_3
 R_4
 R_2
 R_4
 R_5
 R_7
 R_7

FIG. 33

FIG. 34

E1
$$\xrightarrow{b}$$
 H_2NSO_2O (6)

FIG. 36

$$R_1$$
 R_1
 R_2
 R_1
 R_2
 R_1
 R_2
 R_2
 R_3
 R_4
 R_2
 R_2
 R_3
 R_4
 R_2
 R_4
 R_5
 R_5
 R_7
 R_7

E1
$$\xrightarrow{a}$$
 \xrightarrow{e} $\xrightarrow{R_1}$ $\xrightarrow{R_2}$ $\xrightarrow{R_1}$ $\xrightarrow{R_2}$ $\xrightarrow{R_1}$ $\xrightarrow{R_2}$ $\xrightarrow{R_1}$ $\xrightarrow{R_2}$ $\xrightarrow{R_1}$ $\xrightarrow{R_2}$ $\xrightarrow{R_1}$ $\xrightarrow{R_2}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_2}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_1}$ $\xrightarrow{R_2}$ $\xrightarrow{R_1}$ $\xrightarrow{$

a: CH₃COOH / HNO₃

b: NaH / DMF, H2NSO2CI

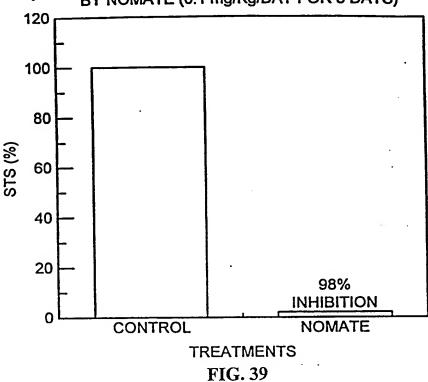
c: NH2NH2*H2O, KOH / DIETHYLENE GLYCOL

d: NaH / DMF. MBr

e: N, N-DIETHYLANILINE, A

f: Pd/C, H₂

IN VIVO INHIBITION OF OESTRONE SULPHATASE BY NOMATE (0.1 mg/Kg/DAY FOR 5 DAYS)



LACK OF EFFECT OF NOMATE (0.1mg/Kg/DAY FOR 5 DAYS) ON UTERINE WEIGHTS OVARIECTOMISED RATS

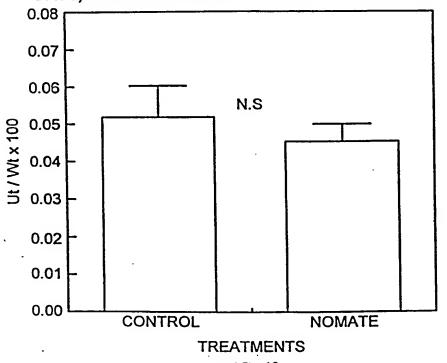


FIG. 40